



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP-209-1(1)	14	523
REVISION DATES			

PIPE CULVERT MATERIAL ALTERNATIVES

TYPE OF PIPE INSTALLATION		CONCRETE	CORRUGATED STEEL AASHTO M-36				CORRUGATED ALUMINUM AASHTO M-196			PLASTIC		
			ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN METALLIC COATED	TYPE "B" AASHTO M-190 HALF BIT. COATED W/PAVED INVERT	TYPE "C" AASHTO M-190 FULL BIT. COATED W/PAVED INVERT	PLAIN UNCOATED	TYPE "B" AASHTO M-190 HALF BIT. COATED W/PAVED INVERT	TYPE "C" AASHTO M-190 FULL BIT. COATED W/PAVED INVERT	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	CORR. VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304
STORM DRAIN	LONGITUDINAL	X										
	CROSS DRAIN											
	GRADE > 10%		X		X	X		X	X			
	GRADE ≤ 10%	X										
SIDE DRAIN		X	X	X	X	X	X	X	X		X	X
PERMANENT SLOPE DRAIN			X	X	X	X	X	X	X		X	X
PERFORATED UNDERDRAIN			X	X			X			X	X	

X - DENOTES ALLOWABLE MATERIAL.
STRUCTURAL REQUIREMENTS OF STORM DRAIN PIPE WILL BE IN ACCORDANCE WITH GA STD 1030-D AND STANDARD SPECIFICATIONS.

SELECTION CRITERIA FOR METAL PIPE
THIS TYPE PIPE CAN BE USED IF:

- RESISTIVITY IS GREATER THAN 4,000 OHMS/CM AND THE PH IS BETWEEN 6.0 AND 10.
 - RESISTIVITY IS GREATER THAN 4,000 OHMS/CM AND THE PH IS BETWEEN 4.5 AND 10.5.
 - RESISTIVITY IS GREATER THAN 1,500 OHMS/CM AND THE PH IS BETWEEN 4.0 AND 9.0.
 - RESISTIVITY IS GREATER THAN 1,500 OHMS/CM AND THE PH IS BETWEEN 4.0 AND 10.5.
 - THE ADDITION OF TYPE "B" COATING (HALF BITUMINOUS WITH PAVED INVERT) IS UTILIZED AND THE RESISTIVITY IS GREATER THAN 1,500 OHMS/CM AND THE PH IS BETWEEN 5.0 AND 9.0.
 - RESISTIVITY IS GREATER THAN 1,500 OHMS/CM AND THE PH IS BETWEEN 5.0 AND 9.0.
- IF THE PH IS LESS THAN 4.0 THE OFFICE OF MATERIALS AND RESEARCH WILL MAKE RECOMMENDATIONS CONCERNING ALLOWABLE HIGH PERFORMANCE CORROSION PROTECTION SYSTEMS. STRUCTURAL REQUIREMENTS OF STORM DRAIN PIPE WILL BE IN ACCORDANCE WITH GEORGIA STANDARD 1030-D OR 1030-P, WHICHEVER IS APPLICABLE, AND STANDARD SPECIFICATIONS:

TEMPORARY SILT FENCE
TYPE A

TOTAL 7440 LM

TO BE USED AT LOCATIONS SHOWN ON
PLANS AND / OR AS DIRECTED BY ENGINEER.

MAINTENANCE SILT FENCE - TYPE A

TOTAL 3720 LM

EROSION CONTROL

PERMANENT

DESCRIPTION	AGRICULTURAL LINE	LIQUID LINE	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	PERMANENT GRASSING	MULCH
UNITS	Mg	L	Mg	Kg	Ha	Mg
QUANTITY	205	725	69	1708	31	1453

TEMPORARY GRASSING

TOTAL 16 Ha

TEMPORARY SILT FENCE
TYPE C

TOTAL 7200 LM

TO BE USED AT LOCATIONS SHOWN ON
PLANS AND / OR AS DIRECTED BY ENGINEER.

MAINTENANCE SILT FENCE - TYPE C

TOTAL 3600 LM

CONSTRUCTION EXIT

4 EACH

MAINT. CONSTRUCTION EXIT

8 EACH

CONST & REMOVE BALED STRAW

TOTAL 600 LM

TO BE USED AT LOCATIONS SHOWN ON
PLANS AND / OR AS DIRECTED BY ENGINEER.

MAINTENANCE BALED STRAW

TOTAL 300 LM

WATER QUALITY
MONITORING & SAMPLING

TOTAL 2 EACH

WATER QUALITY INSPECTIONS

TOTAL 36 MONTHS

TEMPORARY PIPE SLOPE DRAIN

TOTAL 70 LM

TO BE USED AT LOCATIONS AS DIRECTED BY
ENGINEER

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF ROAD DESIGN

WIDENING AND RECONSTRUCTION S.R. 74 JOEL COWAN PKWY
SUMMARY OF QUANTITIES SHEET

DRAWING NO.